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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/611,645	06/30/2003	Hung-Jen Hsu	TSM03-0463	2071	
43859	3859 7590 07/07/2004		EXAMINER		
	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. C/O SLATER & MATSIL, L.L.P.			MCPHERSON, JOHN A	
	17950 PRESTON ROAD, SUITE 1000		ART UNIT	PAPER NUMBER	
DALLAS, TX 75252			1756		

DATE MAILED: 07/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

\$	Application No.	Applicant(s)				
	10/611,645	HSU ET AL.				
Office Action Summary	Examiner	Art Unit				
	John A. McPherson	1756				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin - earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>06 C</u>	October 2003.					
	<u> </u>					
·	,					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-28</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-28</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.	1.				
Application Papers						
9)☐ The specification is objected to by the Examine	er					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Application ty documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		ate Patent Application (PTO-152)				

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DETAILED ACTION

Supplemental Action

- 1. This Supplemental Office Action corrects an error on the Office Action Summary (form PTOL-326) mailed 7/1/04, and also modifies the rejection set forth in paragraph 4 of the Office Action mailed 7/1/04.
- 2. In the Office Action Summary (form PTOL-326) of the Office Action mailed 7/1/04, it was incorrectly stated that claims 1-28 are subject to restriction. This Supplemental Office Action includes a new Office Action Summary which correctly states that claims 1-28 are rejected (and not subject to restriction).

Additionally, in the previous Office Action mailed 7/1/04, a 35 USC 102 rejection was set forth over the <u>abstract</u> of KR 2001-010306. After the mailing of the previous office action a complete copy of this reference became available. This Supplemental Office Action replaces the rejection over the abstract with a rejection over the complete Korean publication, as set forth below in paragraph 6.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 19-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 19 recites the limitation "the <u>photoresist</u> filler material" in lines 7-8.

There is insufficient antecedent basis for this limitation in the claim.

Note that if antecedent basis is provided for this limitation, then claim 21 will not further limit claim 19.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 19-28 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 6-302794 (JP '794). JP '794 discloses a method of manufacturing a solid-state image sensing element comprising the steps of forming a flattening layer on a substrate having a recessed bonding pad section containing an aluminum electrode, applying a photosensitive resin layer as a lens layer on the flattening layer, forming rectangular patterns by photolithography, heat flowing the rectangular patterns to form microlenses, forming a spin-onglass layer, forming a resist layer for boring a pad window, patterning the resist layer, and etching the glass layer and the flattening layer to form a pad window. See the abstracts and Figure 1(A)-(E).

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- 5. Claims 9-10 and 12-17 are rejected under 35 U.S.C. 102(e) as being anticipated by US 5,426,058 (US '058). US '058 discloses a method of manufacturing a solid-state imaging device comprising the steps of smoothing the surface of a semiconductor substrate by embedding a polymeric or polymerizable material into recessed portions in the surface, forming microlenses on the substrate, and cutting the substrate along scribe lines that constitute parts of the recessed portions. See the abstract and column 3, line 42 to column 4, line 68.
- 6. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by KR 2001-0010306 (KR '306). KR '306 discloses a method of making a charge coupled device having microlenses comprising the steps of forming a first planarized layer on a semiconductor substrate, forming a second planarized on layer on the first planarized layer, and forming microlenses on the second planarized layer, wherein the first planarized layer and the microlenses are formed of positive photoresist. See the abstract and Figures 6-11.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. McPherson whose telephone number is (571) 272-1386. The examiner can normally be reached on Monday through Friday, 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on (571) 272-1385. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John A. McPherson Primary Examiner Art Unit 1756

JAM 7/6/04